In the Claims:

WHAT IS CLAIMED IS:

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- 116. (canceled)
- 117. (original) A method of speeding up the reading of analog to digital converter signals to a touch screen comprising the steps of:

reading a first coordinate of a coordinate pair at a first time;

consecutively reading the same coordinate at a second time;

determining if the absolute value of the difference between the first coordinate and the consecutive coordinate is less than a predetermined value; and

quantifying, responsive to the difference determining step the coordinate position as a function of the first or the consecutive coordinate.

- 118. (original) The method of claim 117 wherein the consecutive coordinate is used as the coordinate position.
- 119. (original) The method of claim 118 wherein the steps are repeated for the other desired coordinate position.
- 120. (original) Apparatus speeding up the reading of analog to digital converter signals to a touch screen comprising:

 means for reading a first coordinate of a coordinate pair at a first time;

means for consecutively reading the same coordinate at a second time;

means for determining if the absolute value of the difference between the first coordinate and the consecutive coordinate is less than a predetermined value; and

means, response to the determining means, for quantifying the coordinate position as a function of the first or the consecutive coordinate.

- 121. (original) The apparatus of claim 120 wherein the consecutive coordinate is used as the coordinate position.
 - 122. (canceled)
- 123. (original) The method of claim 117 wherein the consecutive coordinate is used as the coordinate position.
- 124. (original) The method of claim 118 wherein the steps are repeated for the other desired coordinate position.
 - 125. (canceled)
 - 126. (canceled)
- 127. (original) A method of eliminating noise from the reading of analog to digital converter signals to a touch screen comprising the steps of:

reading a first coordinate of a coordinate pair at a first time;

consecutively reading the same coordinate at a second time;

determining if the absolute value of the difference between the first coordinate and the consecutive coordinate is less than a predetermined value; and

quantifying, responsive to the difference determining step the coordinate position as a function of the first or the consecutive coordinate.

- 128. (original) The method of claim 117 wherein the consecutive coordinate is used as the coordinate position.
- 129. (original) The method of claim 118 wherein the steps are repeated for the other desired coordinate position.
- 130. (original) Apparatus eliminating noise from the reading of analog to digital converter signals to a touch screen comprising:

means for reading a first coordinate of a coordinate pair at a first time;

means for consecutively reading the same coordinate at a second time;

means for determining if the absolute value of the difference between the first coordinate and the consecutive coordinate is less than a predetermined value; and

means, response to the determining means, for quantifying the coordinate position as a function of the first or the consecutive coordinate.

- 131. (original) The apparatus of claim 120 wherein the consecutive coordinate is used as the coordinate position.
- 132. (original) In a touch-screen display system for generating pixel coordinate estimates responsive to a user touching a display screen, an apparatus for enabling detection of a "no touch" state of said touch-screen display system comprising:

at least one bus bar;

at least one driver electrically connected to said at least one bus bar to selectively switch said at least one bus bar between at least two of a plurality of electrical potentials wherein the at least one driver is selected to have an off state impedance establishing a pre-determined discharge rate.

133. (original) In a touch-screen display system for generating pixel coordinate estimates responsive to a user touching a display screen, an apparatus for enabling detection of a "no touch" state of said touch-screen display system comprising:

at least one bus bar;

at least one driver electrically connected to said at least one bus bar to selectively switch said at least one bus bar between at least two of a plurality of electrical potentials wherein the at least one driver is controlled to establish pre-determined discharge rates.

134. (original) A method of determining whether or not a touch screen has been touched comprising the steps of:

providing an analog to digital converter which supplies an analog to digital reading;

reading a maximum bit level;

determining whether the reading is smaller than the maximum bit level; and

determining the absence of a user touch if the modified reading is less than the maximum bit level.

- 135. (original) The method of claim 113 wherein the reading step includes the use of a pull up resistor.
- 136. (original) Apparatus determining whether or not a touch screen has been touched comprising:

means for providing an analog to digital reading from an analog to digital converter;

means for reading a maximum bit level;

means for determining whether the reading is smaller than the maximum bit level; and

means for determining the absence of a user touch if the reading is less than a maximum bit level.

137. (original) The apparatus of claim 115 wherein the providing means includes a pull up resistor.